Table 1. Pressures and temperatures associated with hydrate formation and decomposition for 5 settings of cold room temperature. Each designated "run" started with new deionized water. This same water was re-used during subsequent "subruns" within a "run". An X preceding a P reading indicated that hydrate failed to form at that pressure. This table corresponds to Figure 4 in the manuscript.

cold room temp. (°C)	run	sub run	hydrate formation pressure, bar prim.	sec.	tert.	hydrate decomp. temp. (°C)	hydrate decomp. pressure bar	remarks
5.0-5.2	A	1	35.30			6.95	22.27	
		2		31.51		5.79	22.06	
		3			26.34	5.82	22.27	
		4			26.34	5.87	22.27	
		5			26.48	5.87	22.27	
		6			26.54	5.87	22.34	
		7			25.37	5.94	22.06	needle hydrated, fine bubbles
4.7-5.4	A	1	37.09			6.09	18.96	
		2		29.10		5.58	22.13	
		3			25.72	5.57	22.34	
		4			27.44	5.53	19.10	dehydrated needle
		5			25.85	5.50	13.79	dehydrated needle
		6			37.71	6.60	22.06	high P due to prior low P in decomposing hydrate; i.e. not a true tertiary subrun
	B	1	30.82			4.03	22.13	
				32.47		5.47	22.61	failed secondary (T change)
					24.96	5.14	21.37	next morning

Supplement Table 1 (contd.)

cold room temp. (°C)	run	sub run	hydrate formation pressure, bar prim.	sec.	tert.	temp. (°C)	hydrate decomp. pressure bar	remarks
4.7-5.4 (contd.)	C	1	35.92			5.37	22.55	changed CO_2 cylinder
		2		25.03		5.47	-	
	D	1	X38.61			5.58	22.06	
		2		25.72		5.78	-	
	E	1	36.06			5.69	21.99	
		2		28.96		5.74	22.13	
		3			25.44	5.76	-	
	F	1	X38.27			6.18	22.20	
		2		27.99		5.78	22.20	
		3			25.65	5.78	22.06	
	G	1	X38.40			6.39	-	
		2		35.09		5.17	23.51	
		3			23.79	4.78	21.03	decomposition incomplete, tertiary data maybe invalid
3.4-3.9	A	1	X36.68			4.93	18.62	
		2		27.92		4.82	3.45	accidentally lost P
		3	24.20			4.23	18.62	formation P untrustworthy
		4		22.61		4.23	19.99	
		5			20.68	4.18	19.65	
	B	1	35.16			5.65	22.06	
		2		24.54		5.93	20.96	

Supplement Table 1 (contd.)

room temp. (° C)	run	sub run	Hydrate formation pressure, bar prim.	sec.	tert.	hydrate decomp. temp. (°C)	hydrate decomp. pressure bar	remarks
3.4-3.9 (contd.)	B	3			21.37	4.38	19.79	
		4			21.37	4.26	19.99	
		5			21.72	4.10	19.79	
		6			19.86	4.05	19.10	
	C	1	32.27			5.48	20.68	
		2		26.13		4.93	19.99	
		3			26.13	4.65	20.06	failed tertiary
		4			22.13	4.45	19.99	
		5			21.93	4.34	19.99	
		6			21.44	4.17	19.31	
1.7-2.2	A	1	X35.23			3.71	17.37	
		2		22.55		3.19	15.93	
		3			19.24	2.88	15.72	
		4			17.86	2.67	15.24	
		5			17.72	2.57	15.24	
		6			17.44	2.56	15.24	
		7			17.31	2.57	15.31	
		8			16.34	2.10	14.69	
		9			16.96	2.35	14.96	
		10			17.31	2.47	15.10	

Supplement Table 1 (contd.)

cold room temp. (°C)	run	sub run	hydrate formation pressure, bar prim.	sec.	tert.	hydrate decomp. temp. (°C)	hydrate decomp. pressure bar	
1.7-2.2 (contd.)	B	1	26.89			3.71	17.65	
		2		17.92		2.91	16.06	
		3			16.48	2.23	14.89	
	C	1	26.41			3.72	17.79	
		2		20.27		3.23	17.10	reduced P to 13.79 to unclog needle
		3	27.51			2.74	14.69	
		4		16.75		2.44	14.48	
		5			16.89	2.44	15.10	failed tertiary
-0.3-0.2	A	1	17.03			1.00	13.65	
		2		15.17		0.96	13.38	
		3			14.75	0.98	13.24	
		4			14.89	0.84	13.10	
		5			14.55	0.87	12.89	
		6			14.89	0.74	12.62	
		7			14.48	0.94	12.82	
		8			14.41	0.90	12.48	
		9			15.24	0.91	12.20	
		10			14.34	0.78	12.34	
		11			13.79	0.66	11.86	

Supplement Table 1 (contd.)

cold room temp. (°C)	run	sub run	hydrate formation pressure, bar prim.	sec.	tert.	hydrate decomp. temp. (°C)	hydrate decomp. pressure bar	remarks
-0.3-0.2 (contd.)	B	1	21.17			1.36	13.58	
		2		15.51		1.17	13.51	
		3			15.10	1.16	13.38	
		4			15.03	1.06	12.82	
		5			15.10	0.90	12.96	
		6			16.62	0.78	12.69	
		7			14.27	0.72	12.41	
		8			13.93	-0.03	11.24	
		9			13.10	0.15	11.72	
		10			13.51	0.33	12.00	
	C	1	22.82			1.86	14.34	
		2		16.34		1.62	13.72	
		3			17.72	1.46	13.10	failed tertiary
		4			13.72	-0.06	11.10	
		5			13.31	0.21	11.51	
		6			13.79	0.46	11.72	
		7			13.86	0.60	12.07	

Supplement Table 2. Relations between time, pressure and temperature for experiments performed in a bubbling reactor using gaseous CO_2 and deionized water. The data represent the control set for the Snomax series at cold room temperatures of 0 to 0.6 °C. Hydrate formation pressures are in boldface. Data correspond to Figure 5 in the manuscript.

primary run			sequence of tertiary runs								
(min)	(bar)	(°C)	(min)	(bar)	(°C)	(min)	(bar)	(°C)	(min)	(bar)	(°C)
0	0.0	0.03	0	12.1	0.67	0	11.0	0.08	0	10.3	-0.01
14	3.4	0.11	10	**20.1**	0.92	4	**13.7**	0.16	5	**13.4**	0.05
30	6.9	0.30									
40	10.3	0.47	0	11.6	0.66	0	11.3	0.16	0	11.7	-0.33
46	13.8	0.67	4	**14.4**	0.66	4	**13.6**	0.18	3	**13.0**	-0.28
56	17.2	0.71									
65	20.7	0.74	0	11.7	-0.03	0	11.5	0.21	0	11.2	-0.15
77	24.1	0.88	3	**13.9**	0.01	4	**13.8**	0.20	5	**13.4**	0.00
79	**25.2**	0.79									
			0	10.9	-0.04	0	11.7	0.23	0	11.7	0.60
secondary run			4	**13.6**	0.06	4	**13.8**	0.23	5	**15.9**	0.78
(min)	(bar)	(°C)									
0	12.1	0.67	0	11.0	0.03	0	11.5	0.27	0	11.6	0.17
5	15.2	0.77	4	**13.7**	0.15	4	**13.7**	0.26	4	**14.1**	0.21
8	17.2	0.78									
10	**17.7**	0.74	0	11.6	0.10	0	11.5	0.25	0	11.9	0.24
			4	**13.9**	0.19	5	**13.9**	0.30	5	**13.9**	0.28

Supplement Table 2 (contd.)

sequence of tertiary runs								
(min)	(bar)	(°C)	(min)	(bar)	(°C)	(min)	(bar)	(°C)
0	11.3	0.16	0	11.6	0.25	0	11.2	0.29
4	**13.9**	0.26	4	**13.8**	0.30	7	**14.1**	0.38
0	11.3	0.22	0	11.6	0.28	0	11.2	0.36
4	**13.9**	0.30	4	**13.7**	0.32	5	**14.3**	0.43
0	11.4	-0.07	0	11.5	-0.02	0	11.6	0.42
3	**13.6**	-0.08	4	**13.8**	0.01	5	**14.4**	0.48
0	11.4	-0.03	0	11.0	0.05	0	11.9	0.43
3	**13.3**	-0.02	4	**13.7**	0.07	9	**14.5**	0.50
0	11.4	0.02	0	11.3	-0.08	0	11.9	0.42
3	**13.7**	0.06	3	**13.8**	-0.05	5	**14.3**	0.50
0	11.3	0.05	0	10.8	-0.01	0	11.6	0.43
4	**13.6**	0.11	4	**13.7**	0.03	6	**14.3**	0.48

Supplement Table 3. Relations between time, pressure and temperature for experiments performed in a bubbling reactor using gaseous CO_2 and deionized water containing Snomax at 10 mg per liter. Cold room temperatures ranged from –0.1 to 0.6 °C. Hydrate formation pressures are in boldface. Data correspond to Figure 5 in the manuscript.

primary run			sequence of tertiary runs								
(min)	(bar)	(°C)	(min)	(bar)	(°C)	(min)	(bar)	(°C)	(min)	(bar)	(°C)
0	0.0	0.16	0	12.9	0.94	0	11.1	-0.04	0	11.8	-0.09
15	3.5	0.41	4	**14.7**	0.95	4	**12.9**	0.05	6	**12.7**	-0.02
30	6.9	0.76									
37	9.0	0.85	0	11.9	0.08	0	11.2	0.14	0	11.6	-0.12
40	10.3	0.94	5	**13.2**	0.19	5	**13.1**	0.11	4	**13.2**	-0.03
46	13.8	1.10									
56	17.2	1.25	0	11.8	0.20	0	11.2	0.14	0	10.5	-0.08
65	20.7	1.34	7	**13.4**	0.37	7	**13.0**	0.22	10	**12.8**	0.17
75	24.1	1.33									
82	27.6	1.39	0	11.7	0.34	0	11.8	-0.08	0	11.7	-0.10
93	31.0	1.31	4	**13.7**	0.41	7	**12.8**	0.02	8	**12.8**	0.05
103	**32.9**	1.12									
			0	12.7	0.37	0	11.8	0.04	0	11.2	0.07
			5	**13.6**	0.45	5	**13.0**	0.08	10	**13.0**	0.24
secondary run											
			0	11.6	0.41	0	11.5	0.10	0	11.7	-0.07
(min)	(bar)	(°C)	6	**13.7**	0.50	5	**13.0**	0.15	4	**13.0**	-0.03
0	12.4	1.27	0	11.9	0.52	0	11.7	0.14	0	11.7	-0.02
5	**15.1**	1.14	6	**13.7**	0.53	6	**13.0**	0.24	4	**12.9**	0.03

Supplement Table 3 (contd.)

sequence of tertiary runs								
(min)	(bar)	(°C)	(min)	(bar)	(°C)	(min)	(bar)	(°C)
0	11.7	-0.06	0	11.7	0.25	0	11.5	0.05
4	**13.0**	0.01	8	**13.2**	0.36	5	**13.0**	0.13